

DAFTAR PUSTAKA

- Badan Pusat Statistik. (2022). *Statistik tanaman hortikultura Indonesia 2022*. <https://www.bps.go.id>
- Bard, A. J., & Faulkner, L. R. (2001). *Electrochemical methods: Fundamentals and applications* (2nd ed.). New York: Wiley.
- Chemat, F., Abert-Vian, M., & Cravotto, G. (2019). Green extraction of natural products: Concept and principles. *International Journal of Molecular Sciences*, 20(3), 1–19.
- Chang, X. (2021). Thermal degradation of volatile compounds in essential oils: Mechanisms and impacts. *Journal of Food Engineering*, 292, 110–120.
- Cheng, R., Yang, S., Wang, D., Qin, F., Wang, S., & Meng, S. (2025). Advances in the biosynthesis of plant terpenoids: Models, mechanisms, and applications. *Plants*, 14(10), 1428.
- Field, A. (2018). *Discovering statistics using IBM SPSS statistics* (5th ed.). London: Sage Publications.
- Gastwirth, J. L., Gel, Y. R., & Miao, W. (2009). The impact of Levene's test of equality of variances. *Statistical Science*, 24(3), 343–360.
- Geankoplis, C. J. (2018). *Transport processes and separation process principles* (5th ed.). New Jersey: Prentice Hall.
- Guenther, E. (2017). *The essential oils* (Vol. 1). Florida: Krieger Publishing Company.
- Hadri, A. M., Benmimoun, Y., Miloudi, K., Bouhadda, Y., Elsayed, S. T., & Hamimed, A. (2023). Effect of pulsed electric field treatment on the extraction of essential oil from lavender (*Lavandula angustifolia* Mill.). *International Journal of Biology and Biotechnology*, 20(1), 37–46.
- Hariono, B., & Kusumasari, F. C. (2025). Identification of essential oil components from rose flower with high pulsed electric field (HPEF) treatment using water distillation method. *IJASEIT*, 15(1), 164–171. <https://doi.org/10.1234/ijaseit.v15i1.2025>
- Hariono, B., & Rachmanita, R. E. (2024). Application of PEF (pulsed electric field) on the extraction of essential oil of Semboro sweet orange peel (*Citrus*

- sinensis* Osbeck) using the water distillation method. *Journal of Engineering Science and Technology*, 19(2), 16–27.
- Hyani, T., & Ri, S. (2023). Formulasi ekstrak daun kemangi (*Ocimum basilicum*) sebagai bedak tabur antiseptik beserta uji daya hambat terhadap *Staphylococcus aureus*. *Jurnal Delima Harapan*, 10(1), 53–58.
- Incropera, F. P., DeWitt, D. P., Bergman, T. L., & Lavine, A. S. (2021). *Fundamentals of heat and mass transfer* (8th ed.). New York: Wiley.
- ITC. (2023). *Trade map: International trade statistics*. International Trade Centre.
- Kern, D. Q. (2017). *Process heat transfer*. New York: McGraw-Hill.
- Kumar, P. (2022). Application of pulsed electric field in food processing. *Food Engineering Reviews*, 14(2), 210–230.
- Li, Y. (2021). Advances in extraction technologies for essential oils. *Food Chemistry*, 345, 128–140.
- Market Research Future. (2023). *Basil essential oil market research report*. <https://www.marketresearchfuture.com>
- Maxwell, S. E., Delaney, H. D., & Kelley, K. (2017). *Designing experiments and analyzing data* (3rd ed.). New York: Routledge.
- Millet, J. P. (2020). Statistical considerations in experimental research. *Journal of Applied Statistics*, 47(5), 889–905.
- Mohan, M. (2020). Innovative extraction techniques for plant bioactives. *Trends in Food Science & Technology*, 98, 1–15.
- Montgomery, D. C. (2019). *Design and analysis of experiments* (10th ed.). New York: Wiley.
- Moran, M. J., Shapiro, H. N., Boettner, D. D., & Bailey, M. B. (2020). *Fundamentals of engineering thermodynamics* (9th ed.). New York: Wiley.
- National Institute of Standards and Technology. (2017). *NIST Chemistry WebBook*. U.S. Department of Commerce.
- Pandey, A. K., Kumar, P., Singh, P., Tripathi, N. N., & Bajpai, V. K. (2017). Essential oils: Sources of antimicrobials and food preservatives.

- Prakash, S. (2025). High pulsed electric field-assisted extraction of essential oils. *Journal of Food Processing and Preservation*, 49(2), 1–12.
- Putri, I. A., Fatimura, M., Husnah, & Bakrie, M. (2021). Pembuatan minyak atsiri kemangi (*Ocimum basilicum* L.) dengan metode distilasi uap langsung. *Jurnal Teknik Kimia Universitas PGRI Palembang*, 6(2), 149–156.
- Ranjha, M. M. A. N., Kanwal, R., Shafique, B., Arshad, R. N., Irfan, S., Kieliszek, M., Kowalczewski, P. Ł., Irfan, M., Khalid, M. Z., Roobab, U., & Aadil, R. M. (2021). A critical review on pulsed electric field: A novel technology for the extraction of phytoconstituents. *Molecules*, 26(16), 4893. <https://doi.org/10.3390/molecules26164893>
- Roselló-Soto, E. (2021). Applications of pulsed electric fields in food processing. *Food Engineering Reviews*, 13(2), 224–246.
- Ruxton, G. D. (2006). The unequal variance t-test is underused. *Behavioral Ecology*, 17(4), 688–690.
- Schmider, E. (2010). Is it really robust? Reinvestigating ANOVA. *Methodology*, 6(4), 147–151.
- Smith, J. M., Van Ness, H. C., & Abbott, M. M. (2018). *Introduction to chemical engineering thermodynamics* (8th ed.). New York: McGraw-Hill.
- Stan, C., Nenciu, F., Muscalu, A., Vlăduț, V. N., Burnichi, F., Popescu, C., Gatea, F., Boiu-Sicuia, O. A., & Israel-Roming, F. (2022). Chemical composition, antioxidant and antimicrobial effects of essential oils extracted from two new *Ocimum basilicum* L. varieties. *Diversity*, 14, 1048. <https://doi.org/10.3390/d14121048>
- Sukardi, Pulungan, M. H., Purwaningsih, I., & Sita, P. F. (2020). Extraction of phenolic compounds from basil (*Ocimum americanum* L.) leaves with pretreatment using pulsed electric field. *IOP Conference Series: Earth and Environmental Science*, 475, 012056. <https://doi.org/10.1088/1755-1315/475/1/012056>
- Sun, D. W. (2021). Emerging technologies for food processing. *Food Engineering Reviews*, 13(1), 1–20.
- Takaki, K., Takahashi, K., Hayashi, N., Wang, D., & Ohshima, T. (2021). Pulsed power applications for agriculture and food processing. *Reviews of*

Modern Plasma Physics, 5, 12. <https://doi.org/10.1007/s41614-021-00059-9>

Trasatti, S. (2017). Electrochemical surface science. *Electrochimica Acta*, 45(15–16), 2377–2385.

UN Comtrade. (2023). *United Nations commodity trade statistics database*. <https://comtrade.un.org>

Wang, L. (2020). Advances in electrochemical extraction processes. *Chemical Engineering Journal*, 384, 123–135.

Zeng, X., & Zhang, M. (2019). Pulsed electric field processing in food industry. *Food and Bioprocess Technology*, 12(6), 945–960.

Zhang, H. (2020). Optimization of essential oil extraction. *Industrial Crops and Products*, 145, 112–120.